

## DOE-STD-1189 Implementation for NNSA Defense Nuclear Facility Line Item Capital Projects<sup>1</sup>

Site	Facility	Planned Hazard Category	Critical Decision Approved	Aspects of DOE-STD-1189 to be implemented
Los Alamos National Laboratory (LANL)	Chemistry and Metallurgy Research Replacement (CMRR) Project	2	CD-1	Currently starting preliminary design phase. The format and content for a Preliminary Safety Design Report (PSDR) from DOE-STD-1189 will be used for preparation of a Preliminary Documented Safety Analysis (PDSA). A Preliminary Safety Validation Report will be developed to document the basis for approval of this PDSA. In the final design phase, the format and content for a PDSA from DOE-STD-1189 will be used for preparation of the PDSA. A Safety Design Strategy has been prepared for the project.
LANL	Technical Area-55 Reinvestment Project (TRP) Phase I	2	TRP I: CD-2	TRP I involves upgrades to chillers and cooling towers. Per the scope of this project, a determination has been made that the associated subprojects are not major modifications and therefore DOE-STD-1189 does not apply.
LANL	Technical Area-55 Reinvestment Project (TRP) Phase II	2	TRP II: CD-0 (CD-1 Energy Systems Acquisition Advisory Board conducted in June 2008)	TRP II previously determined not to be a major modification so PDSA not prepared. However, this phase involves upgrades to safety structures, systems, and components to be relied upon in new TA-55 DSA and will be re-evaluated as to whether they meet the definition of a major modification per DOE-STD-1189. If determined to be a major modification, a PDSA using DOE-STD-1189 format and content will be required. If determined not to be a major modification, an evaluation will be completed to determine if some aspects of DOE-STD-1189 should be implemented during the design.
LANL	Technical Area-55 Reinvestment Project (TRP) Phase III	2	TRP III: Pre-CD-0	TRP III: For this group of subprojects, after reaching CD-1, a determination will be made using the criteria from DOE-STD-1189 to conclude whether the subprojects are major modifications.
LANL	Radioactive Liquid Waste Treatment Facility Upgrade Project	2	CD-1	A draft PDSA has been completed. However, there are open design issues. DOE-STD-1189 will be used for the preparation of a PDSA in the preliminary design phase using the PSDR format and content requirements. The PDSA prepared in the final design phase will use the DOE-STD-1189 format and content requirements.

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LANL	New Solid Transuranic Waste Facility Project	2	CD-0 ( request for CD-1 pending)	Project completed preliminary hazard analysis in 2006 in conjunction with conceptual design development, and is seeking CD-1 in near term. DOE-STD-1189 will be used for the format and content for preparation of the PSDR and PDSA.
LANL	Technical Area-55 Radiography Project	2	CD-0 (Project on hold since 2006)	Project on hold, no progress since conceptual design was put on hold in 2006. If project is restarted, implementation of DOE-STD-1189 will be evaluated. At a minimum, DOE-STD-1189 would be used for the format and content for preparation of the PDSA if the project restarted.
Nevada Test Site	Device Assembly Facility - Criticality Experiments Facility	2	CD-2/3A-D	DOE-STD-1189 will not be implemented for this project. The PDSA has been approved by DOE and the Independent Project Reviews have ensured that safety has been integrated into the design process.
Pantex Plant	Weapon Surveillance Facility	2	CD-0 (Project on hold)	If the project proceeds, DOE-STD-1189 will be implemented in its entirety.
Savannah River Site (SRS)	Pit Disassembly and Conversion Facility	2	CD-1	DOE-STD-1189 will be used for the format and content for preparation of the PSDR and PDSA.
SRS	Waste Solidification Building	2	CD-1	DOE-STD-1189 will be used for the format and content for preparation of the PSDR and PDSA.
National Security Complex	Highly Enriched Uranium Materials Facility	2	CD-3	DOE-STD-1189 will not be implemented for this project. The PDSA has been approved by DOE and the Independent Project Reviews have ensured that safety has been integrated into the design process.
National Security Complex	Uranium Processing Facility (UPF)	2	CD-1	DOE-STD-1189 will be fully implemented for this project. UPF was the test case for the draft of the Standard.

Note 1: The MOX Fuel Fabrication Facility at the Savannah River Site is being constructed per Nuclear Regulatory Commission licensing requirements.